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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/576,374	04/18/2006	Jacques Testud	BDM-06-1080 9707	
	7590 08/15/200° DLA PIPER US LLP	EXAMINER		
ONE LIBERTY	PLACE		GREGORY, BERNARR E	
1650 MARKET ST, SUITE 4900 PHILADELPHIA, PA 19103			ART UNIT	PAPER NUMBER
			3662	
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			08/15/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
Office Action Summary		10/576,374	TESTUD ET AL.		
		Examiner	Art Unit		
		Bernarr E. Gregory	3662		
Period fo	The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address		
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES OF THE MAILING DA	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status					
2a)□	Responsive to communication(s) filed on This action is FINAL . 2b) This Since this application is in condition for allower closed in accordance with the practice under E	action is non-final.			
Dispositi	on of Claims				
5) □ 6) ⊠ 7) □ 8) □ Applicati 9) □	Claim(s) 15-34 is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 15-34 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or are subjected to by the Examine The drawing(s) filed on 48 April 2006 is/area as	vn from consideration. r election requirement. r.			
	The drawing(s) filed on <u>18 April 2006</u> is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority u	ınder 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
2) 🔲 Notic 3) 🔯 Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)	4)	ite		
Paper No(s)/Mail Date 6)					

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1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 15-34 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The method step of lines 5-7 of independent claim 15 is indefinite and unclear in context in that it does not clearly describe what action is pointed to by the method step.

The method step of lines 5-7 of independent claim 29 is indefinite and unclear in context in that it does not clearly describe what action is pointed to by the method step.

On line 8 of independent claim 15, the phrase "signals previously determined" lacks clear antecedent in that it is not clear in context if it refers back to the "digital signals" on line 3 of claim 15, to the "signal" on line 6 of claim 15, to both of the aforementioned signals, or to some unmentioned signal.

On line 9 of independent claim 29, the phrase "signals determined in the preceding steps" lacks clear antecedent in that it is not clear in context if it refers back to the "digital signals" on line 3 of claim 29, to the "signal" on line 6 of claim 29, to both of the aforementioned signals, or to some unmentioned signal.

Dependent claims 16-28 and 30-34 are unclear in that they respectively depend from unclear independent claims 15 and 29.

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 15-34 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claims 15-34 are non-statutory under 35 USC 101 in that as purely mathematical manipulation they do not fall into one of the statutory categories of invention in the statute. In each of independent method steps 15 and 29, there is a step of "acquiring" or "acquisition" of a "radar image," but this is merely a preliminary data-gathering step for the mathematical algorithm that is not sufficient to make the claimed methods statutory. Otherwise, all of the method steps set forth in claims 15-34 are merely mathematical manipulations of data. Each of the independent method claims 15 and 29 arrive at a "concentration" of "solid particles," but no practical use is made of that numerical result of the mathematical computation of these methods. The further limitations of dependent claims 16-28 and 30-34 are further mathematical manipulation that does nothing in order to make the respective methods statutory. Please see MPEP 2106.02.

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The examiner cited prior art herewith is of general interest for showing the state of the related prior art. The French "Demande de Brevet d'Invention"

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2,658,617 (Delahaye et al.) is of particular interest in that the inventive device quantifies and identifies hydrometeors. Particularly, it can distinguish between rain, snow, and hail as to the "precipitation characteristics."

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bernarr E. Gregory whose telephone number is (571) 272-6972. The examiner can normally be reached on weekdays from 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas H. Tarcza, can be reached on (571) 272-6979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bernarr E. Gregory Primary Examiner

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